

Alfa Laval reveals the new T25 semi-welded plate heat exchanger – tailored to the new energy landscape

In today's rapidly evolving energy landscape, scalability and efficiency are essential. As clean energy capacity grows, we need solutions that maximise energy efficiency to support sustainable progress. Alfa Laval, a global leader in heat transfer technology, introduces the T25 semi-welded plate heat exchanger—a compact yet powerful innovation designed to meet the demands of the modern energy system. The T25 heat exchanger plays a vital role in the decarbonisation journey by supporting the scale-up of clean energy sources like green hydrogen, while also delivering benefits to established sectors, including the heating and cooling of buildings, heavy process industries, and power production. The T25 is the first in Alfa Laval's new line of semi-welded plate heat exchangers, offering a wide range of plate and gasket materials tailored to withstand demanding applications.

Alfa Laval's semi-welded plate heat exchangers are built for high-performance applications. Engineered to perform under pressure - just like the industries they serve. With unique features that extend gasket lifespan, ensure superior sealing under high pressure, and enhance thermal performance, these exchangers are designed for maximum efficiency. High serviceability boosts uptime and reduces CO2 emissions. When it comes to scaling up clean energy, specifying a heat exchanger where true greatness is measured in performance is essential.

Moreover, maximising efficiency is critical for decarbonisation. For example, as hydrogen production scales, efficient heat transfer solutions become indispensable. Maximising the efficiency and lifespan of electrolyzers are critical to making hydrogen competitive. With conventional heat transfer technology in electrolyzers, up to 40% of energy is lost in the form of excess heat. By using Alfa Laval plate heat exchanger technology, this excess energy can be reused in hydrogen production, improving overall efficiency. The T25 semi-welded technology helps make green hydrogen more affordable and accessible.

The T25 semi-welded will also be available in a shorter format. Specifically tailored for applications limited by pressure drop, the TS25 is a perfect fit for hydrogen gas coolers.

"The Alfa Laval T25 semi-welded plate heat exchanger is ready now and designed for the future. It combines compact design with powerful performance - offering more capacity in less space, perfect for applications such as green hydrogen production, renewable energy storage and industrial heat pumps." Julien Gennetier, Vice President Energy Division, Alfa Laval



For further information, please contact:

Oliver Hellberg

Marketing, Alfa Laval

Mobile: +46730434478

E-mail: oliver.hellberg@alfalaval.com

About Alfa Laval Plate Heat Exchangers

Our plate heat exchangers optimise heat transfer through large surfaces of corrugated plates, drawing heat from one gas or liquid to another. The high efficiency and an outstanding reliability in a compact design, offers an investment with the most attractive cost-to-ownership (CTO) over the product lifetime. Not to forget the energy saving capabilities and low environmental footprint.

Link: <https://www.alfalaval.com/gphe>

This is Alfa Laval

The ability to make the most of what we have is more important than ever. Together with our customers, we're innovating the industries that society depends on creating positive impact. We're set on helping billions of people to get the energy, food, and clean water they need. And, at the same time, we're decarbonising the marine fleet that's the backbone of global trade.

We pioneer technologies and solutions that free our customers to unlock the true potential of resources. As our customers' businesses grow stronger, the goal of a truly sustainable world edges closer. The company is committed to optimizing processes, creating responsible growth, and driving progress to support customers in achieving their business goals and sustainability targets. Together, we're pioneering positive impact.

Alfa Laval was founded 140 years ago, has customers in some 100 countries, employs more than 21,300 people, and annual sales in 2023 were SEK 63.6 billion (5.5 BEUR). The company is listed on Nasdaq Stockholm.

www.alfalaval.com